

FIG. 2A

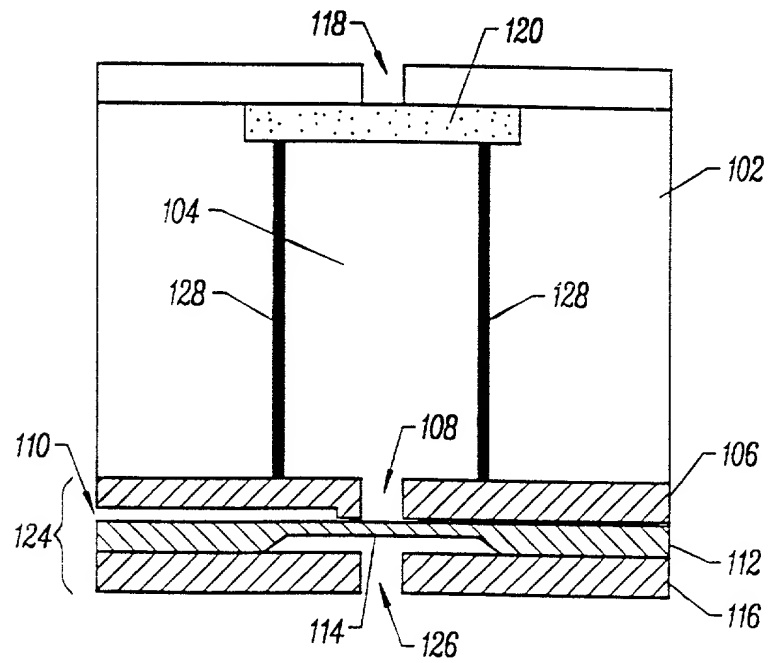


FIG. 2B

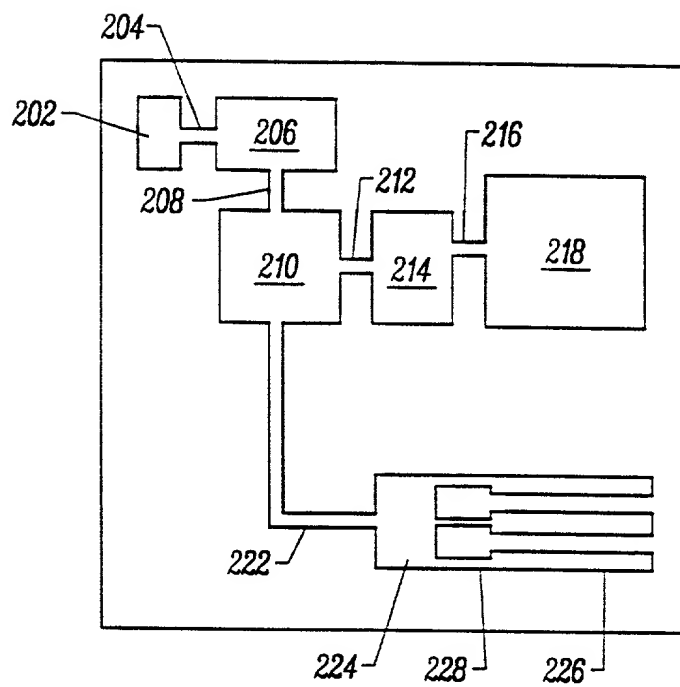
*FIG. 3*

FIG. 4A

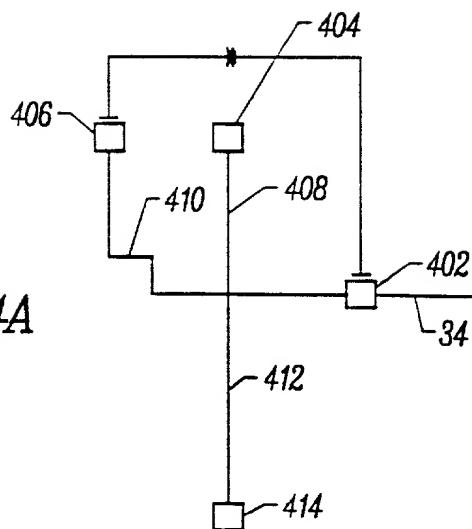


FIG. 4B

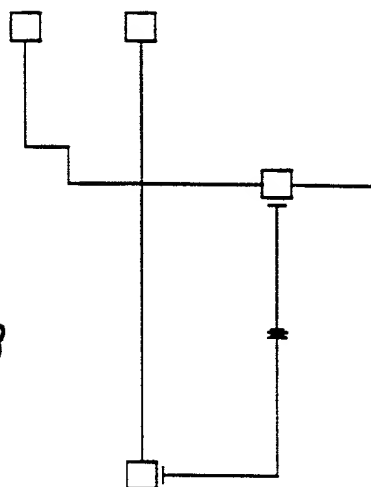
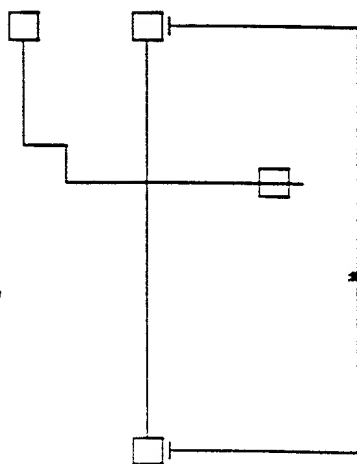


FIG. 4C



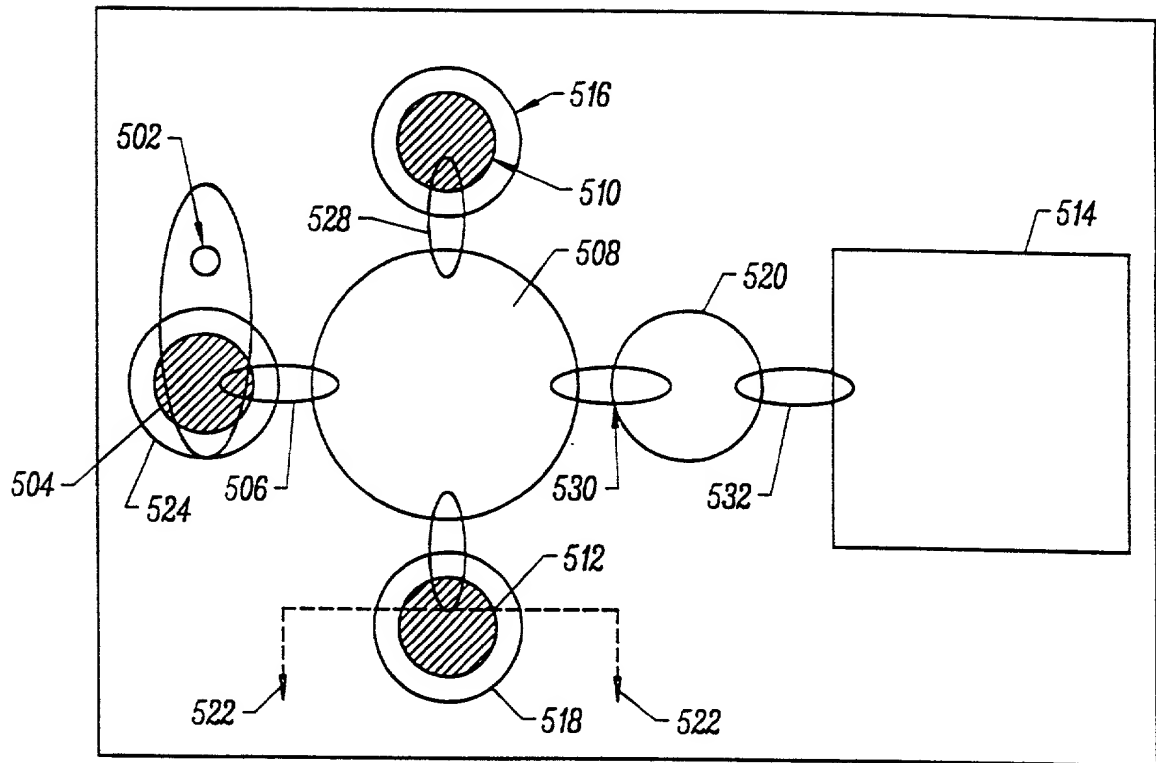


FIG. 5A

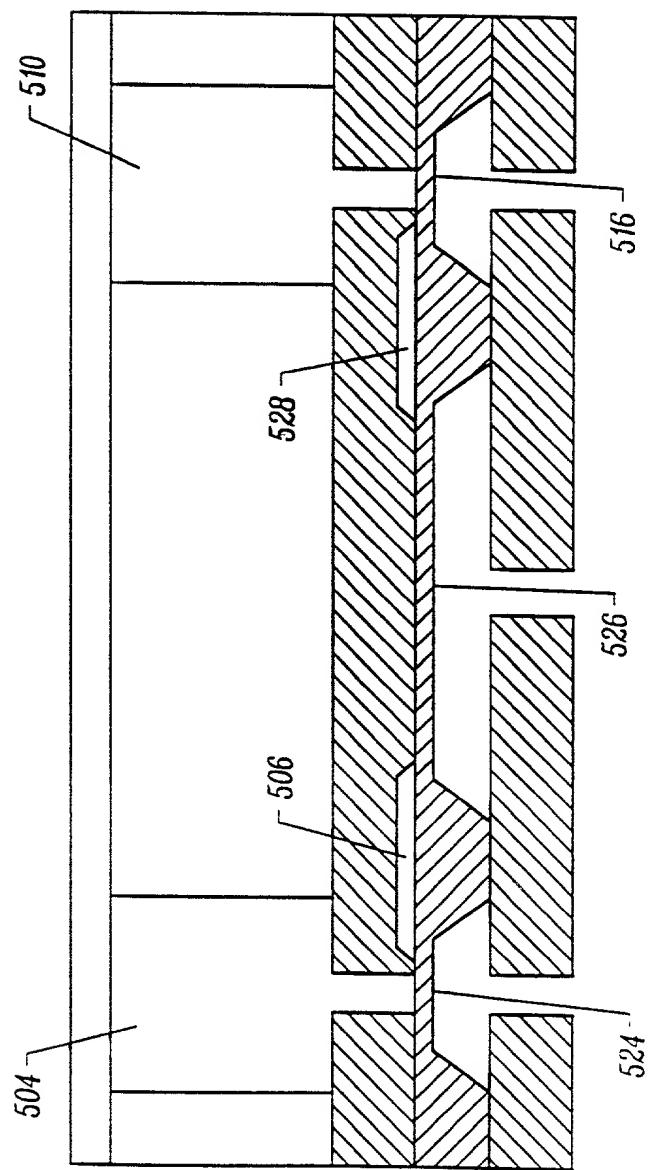


FIG. 5B

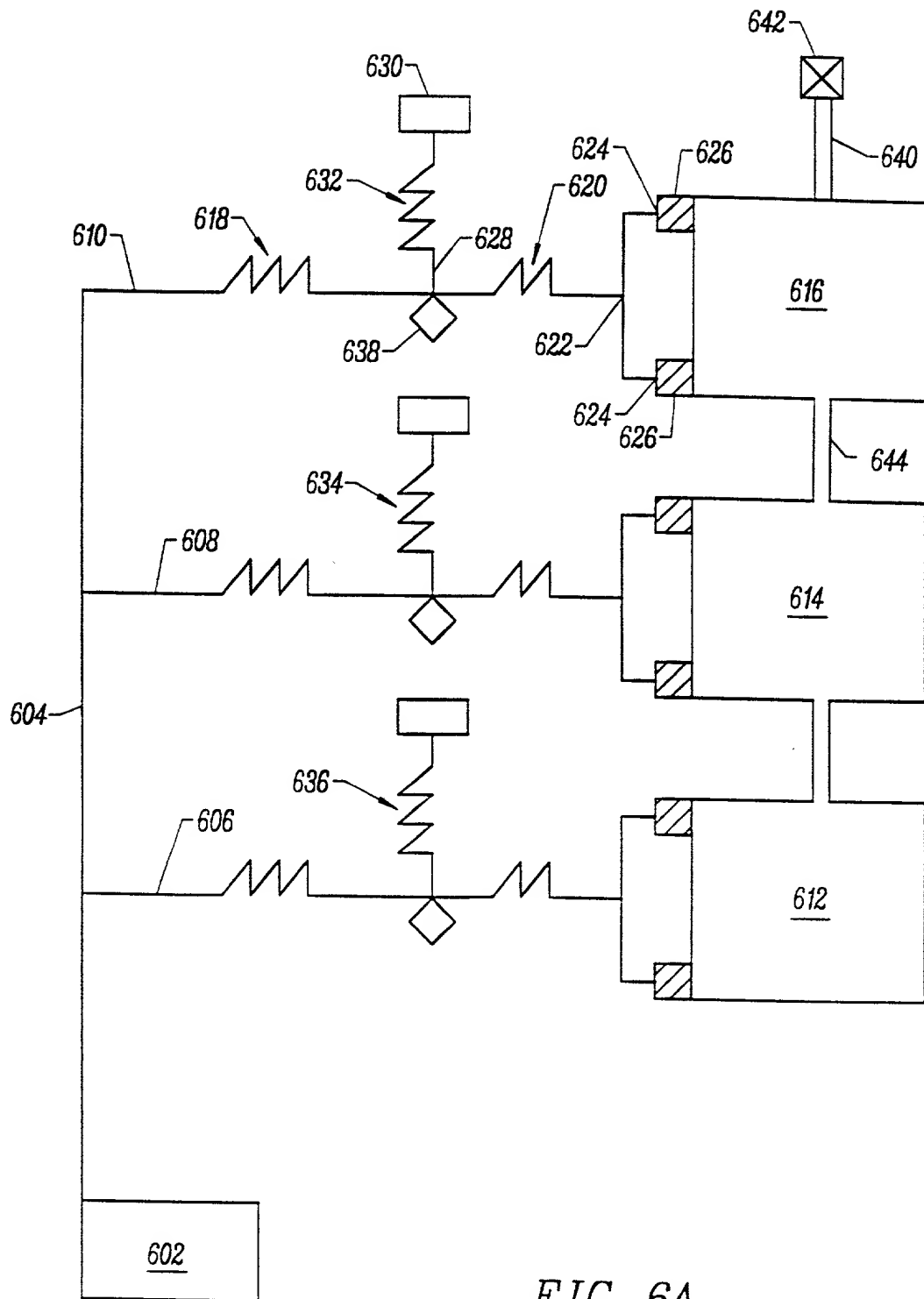


FIG. 6A

Downloaded from ascelibrary.org by University of California, San Diego on 06/04/15

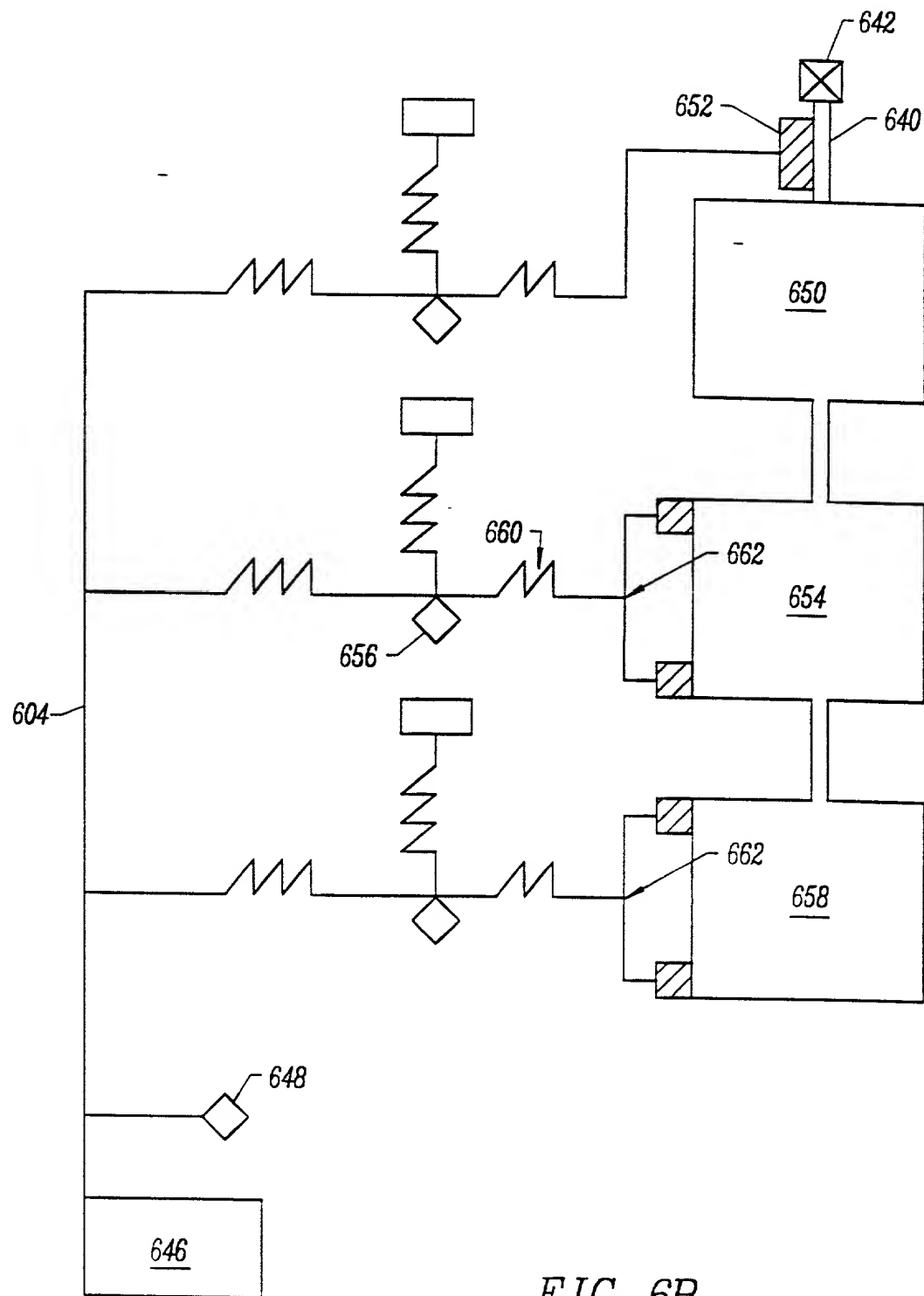
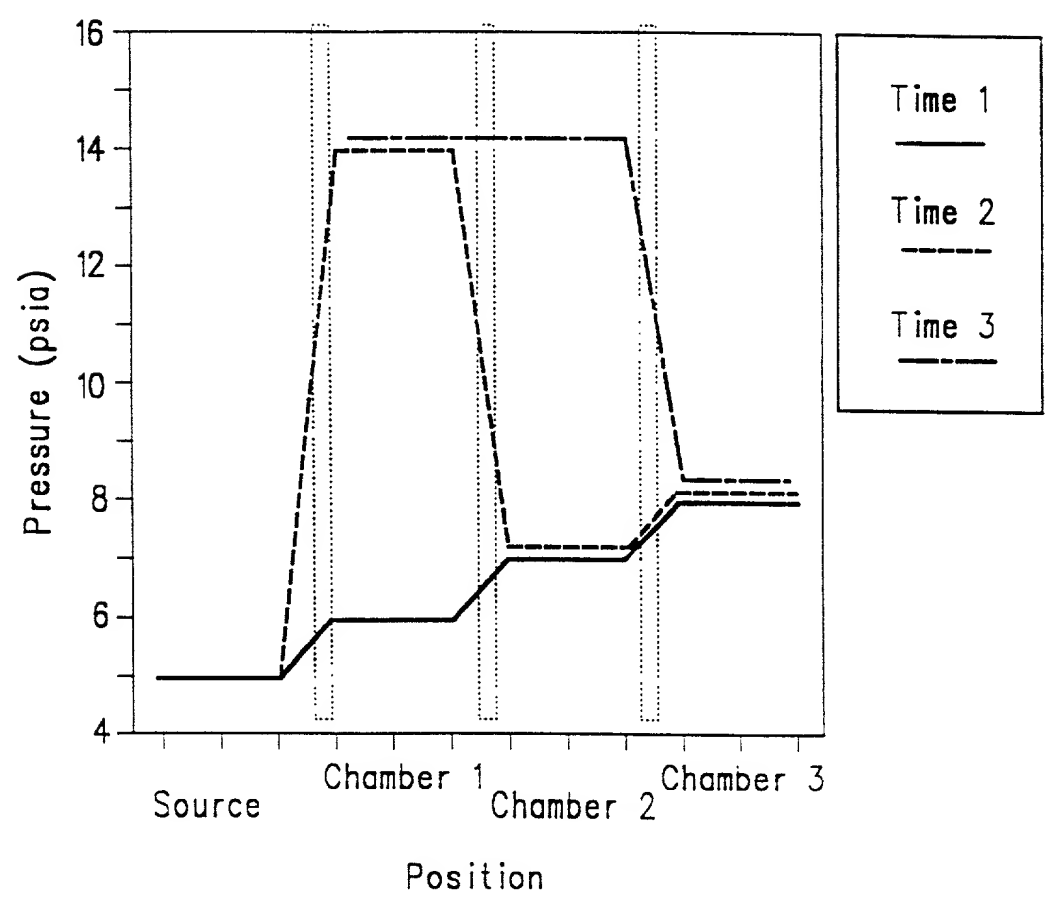


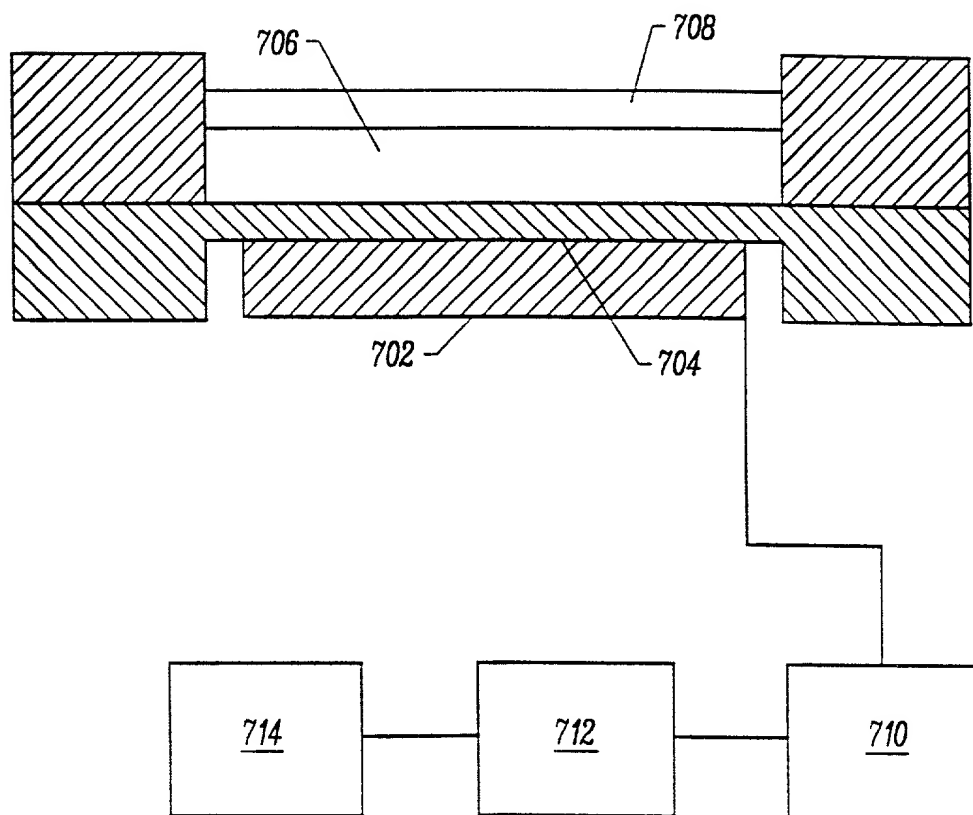
FIG. 6B



# Pressure Distribution Among Control Nodes



*FIG. 6C*

*FIG. 7A*

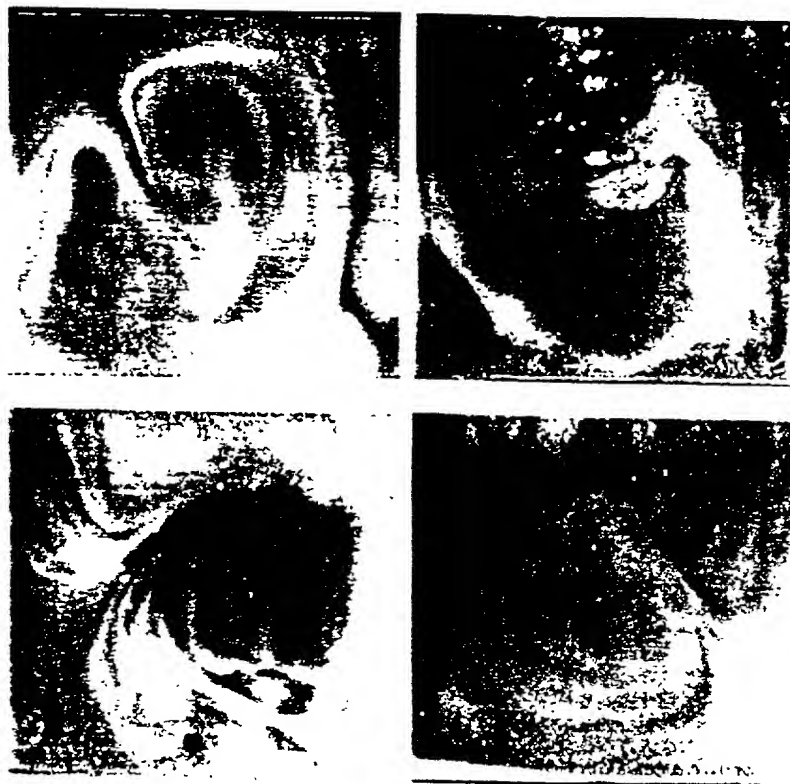
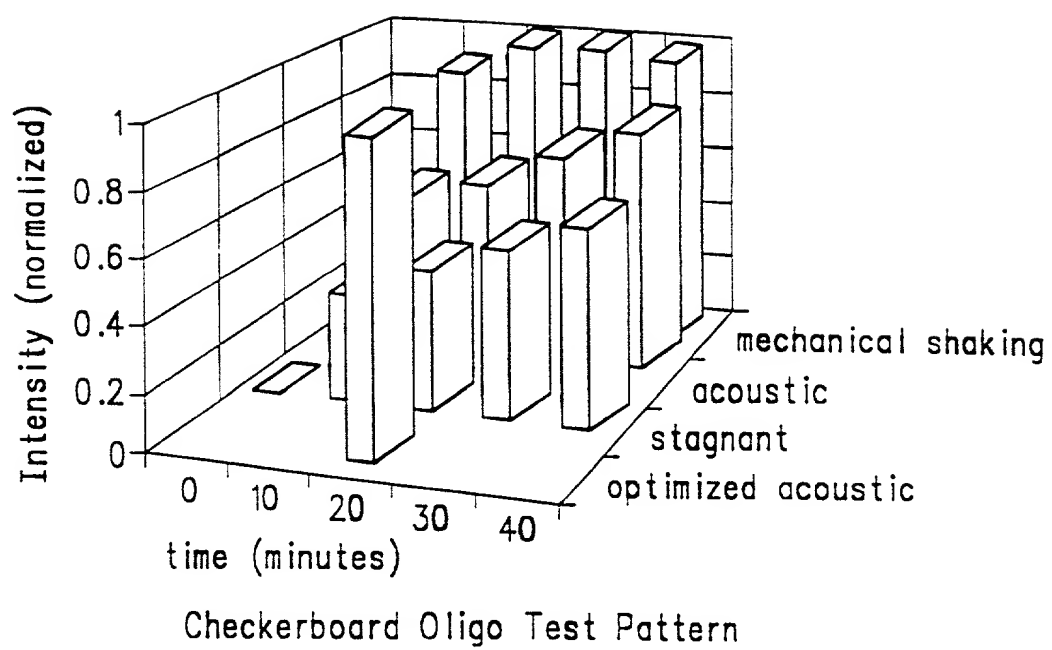
Flow Visualization

FIG. 7B

09751638-123400

*FIG. 7C*

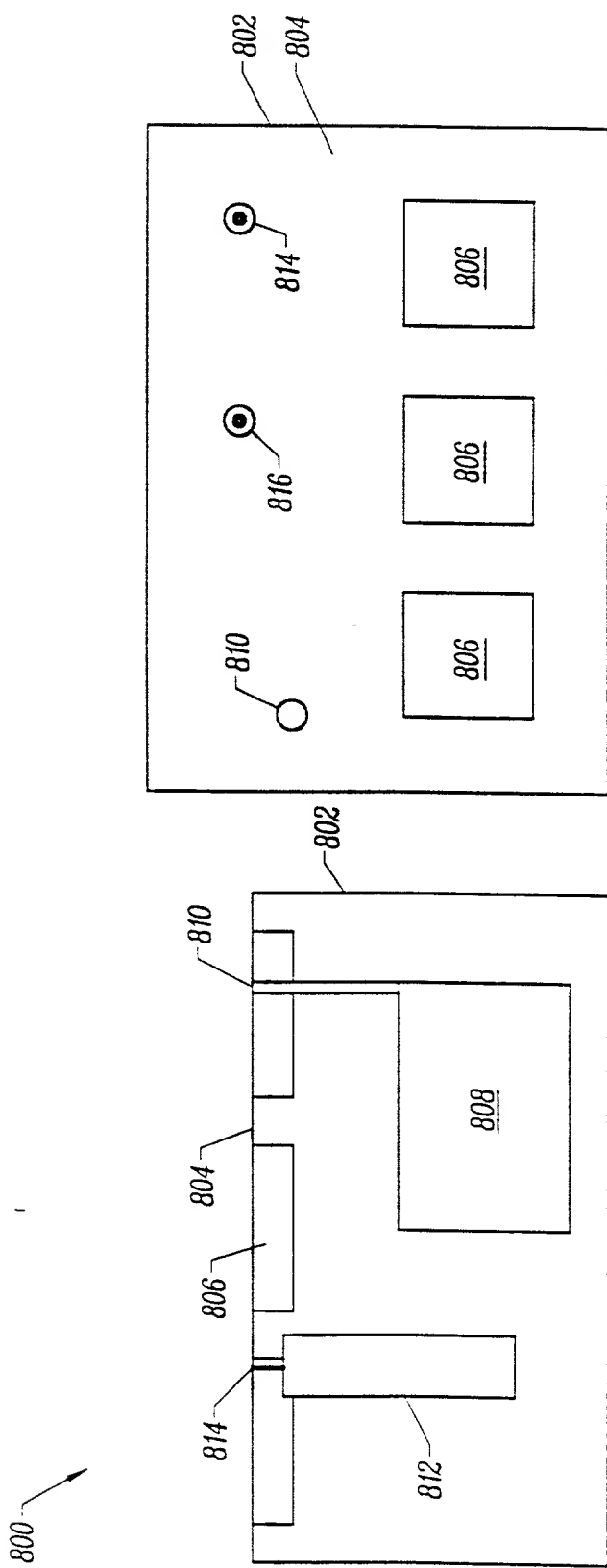


FIG. 8

DATE: 03/03/95

Cycles:	35	Ini Den	94.0	Den	94.0	Ann	65.0	Fin Ext	72.0	Hold	10.0
Temp		Time(s)	60		20		40		60		1000
Temp Hem			0		0		0		0		981
Cyc Hem	19	St. Time [Min]	85.4			Tue. Nov. 14, 1995			11:31 AM		

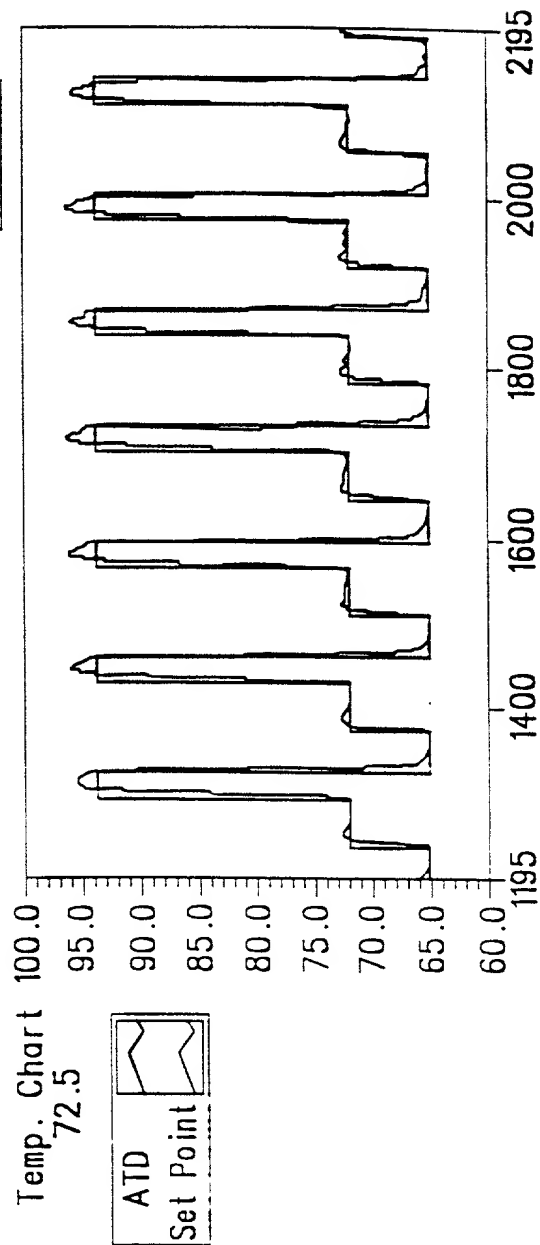
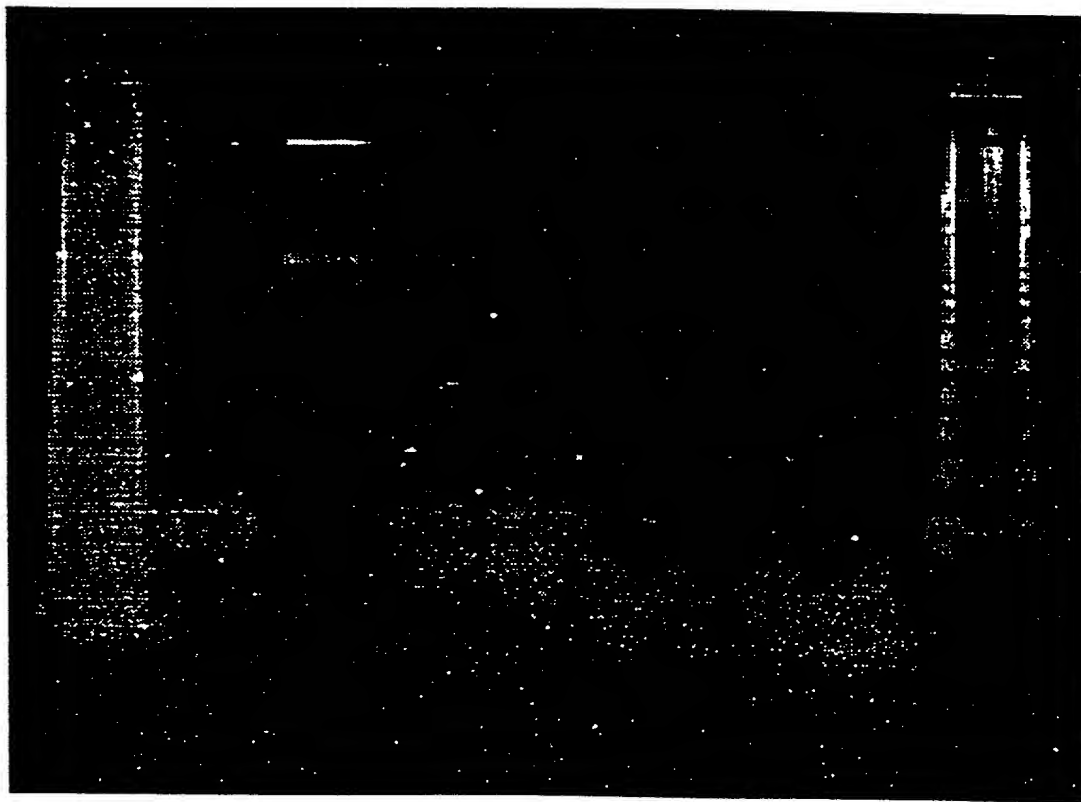


FIG. 9

## Effect of Fragmentation Time at 94C

t = 0 5 10 30 60 120 minutes



Correct Call Rates:

74%	95.8%	95.9%
95.9%	95.5%	83%

FIG. 10A

Standard

Tube Based

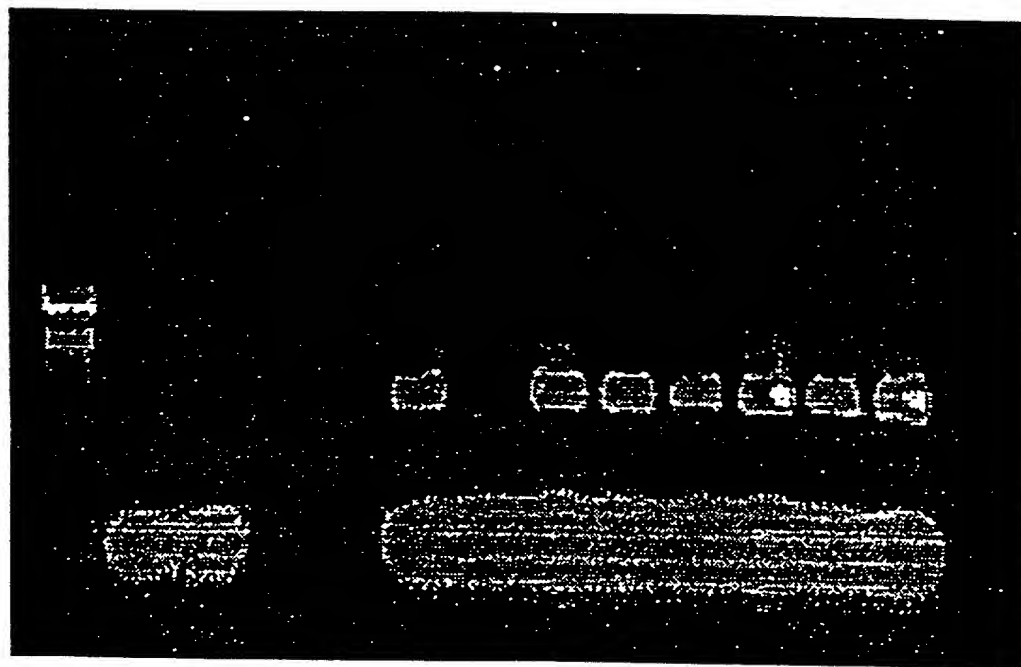


FIG. 10B

001627" 86945260



## PCR Results

### ■ PCR:

amplification:  $10^9$  (35 cycles)

control

microchamber

✓

✓



< 50 ng

< 30 ng

< 20 ng

< 10 ng

FIG. 10C

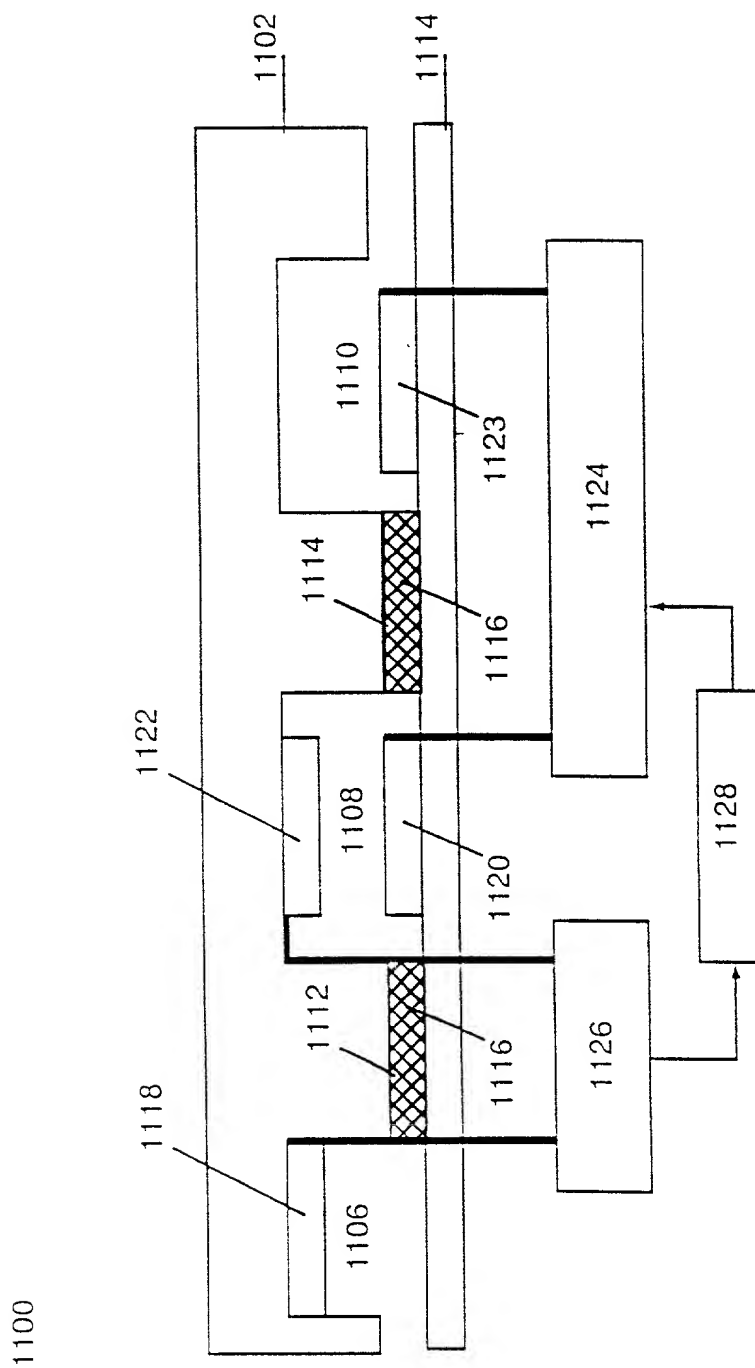


Figure 11

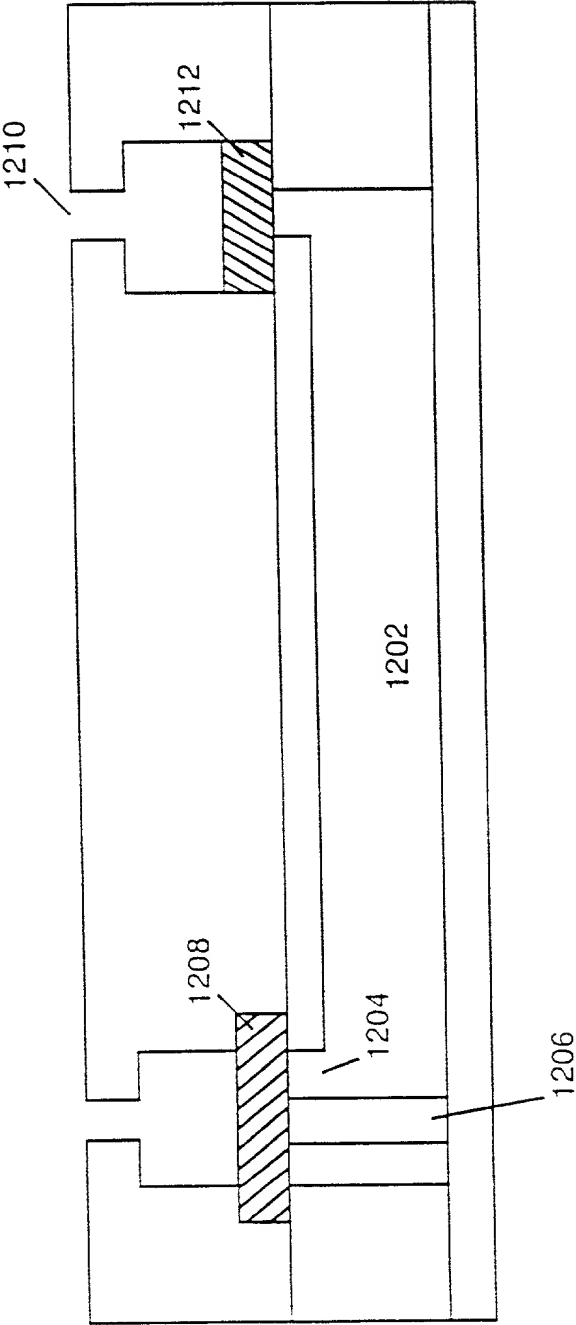


Figure 12a

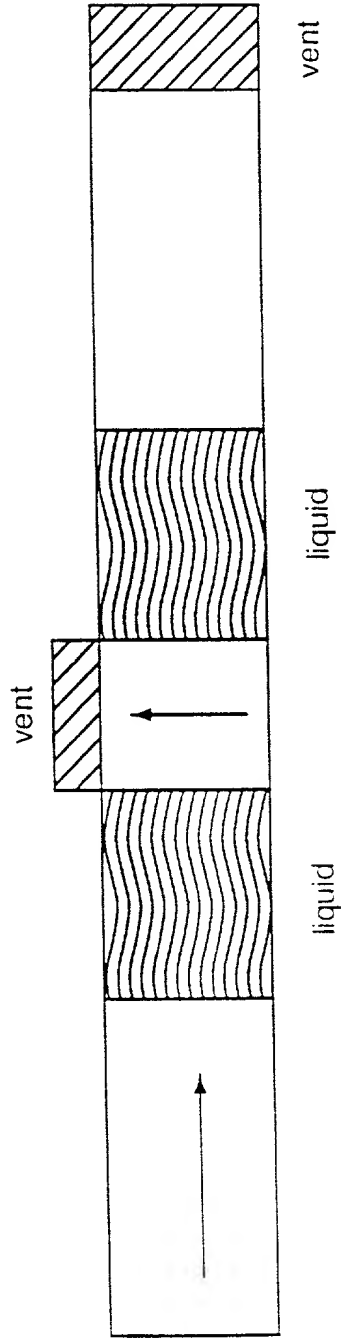


Figure 12b

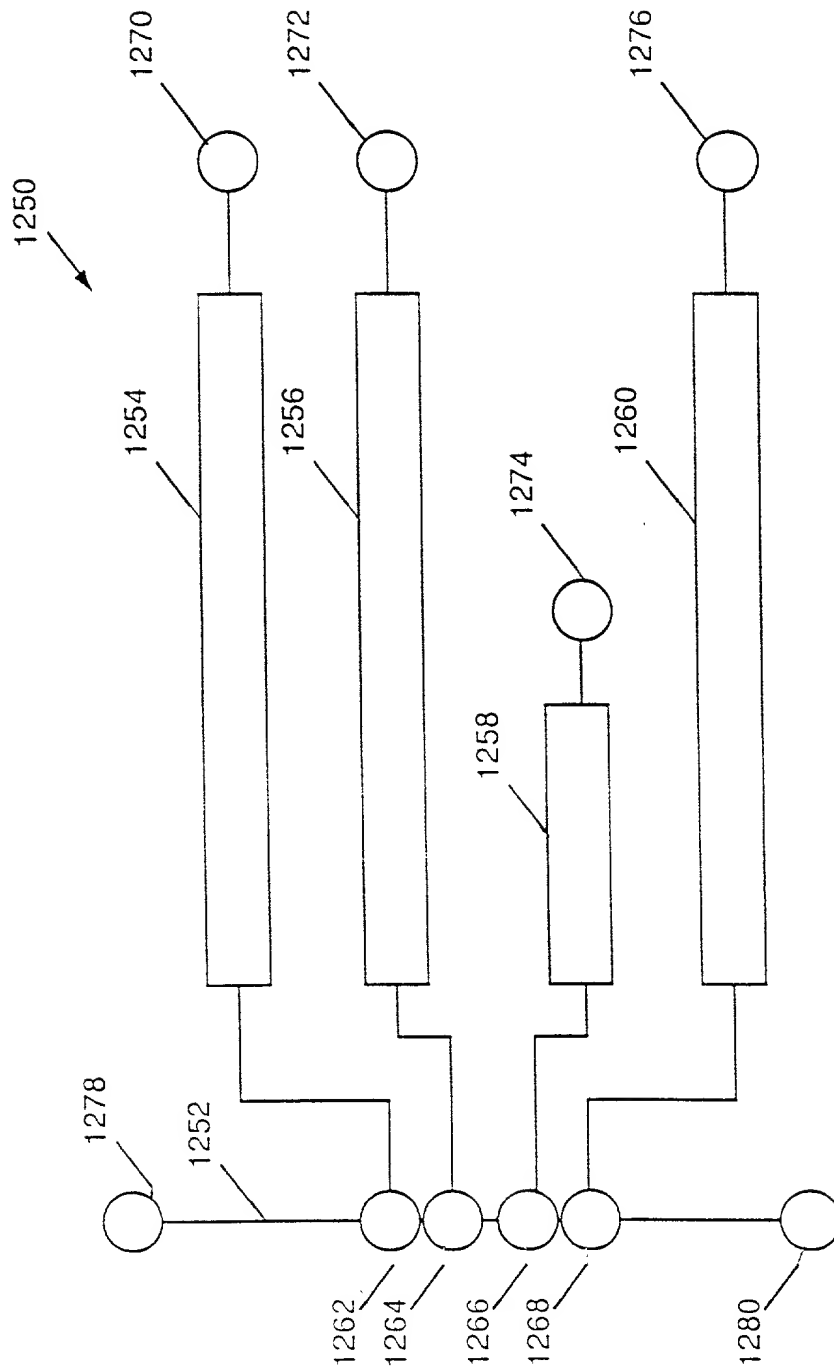


Figure 12c

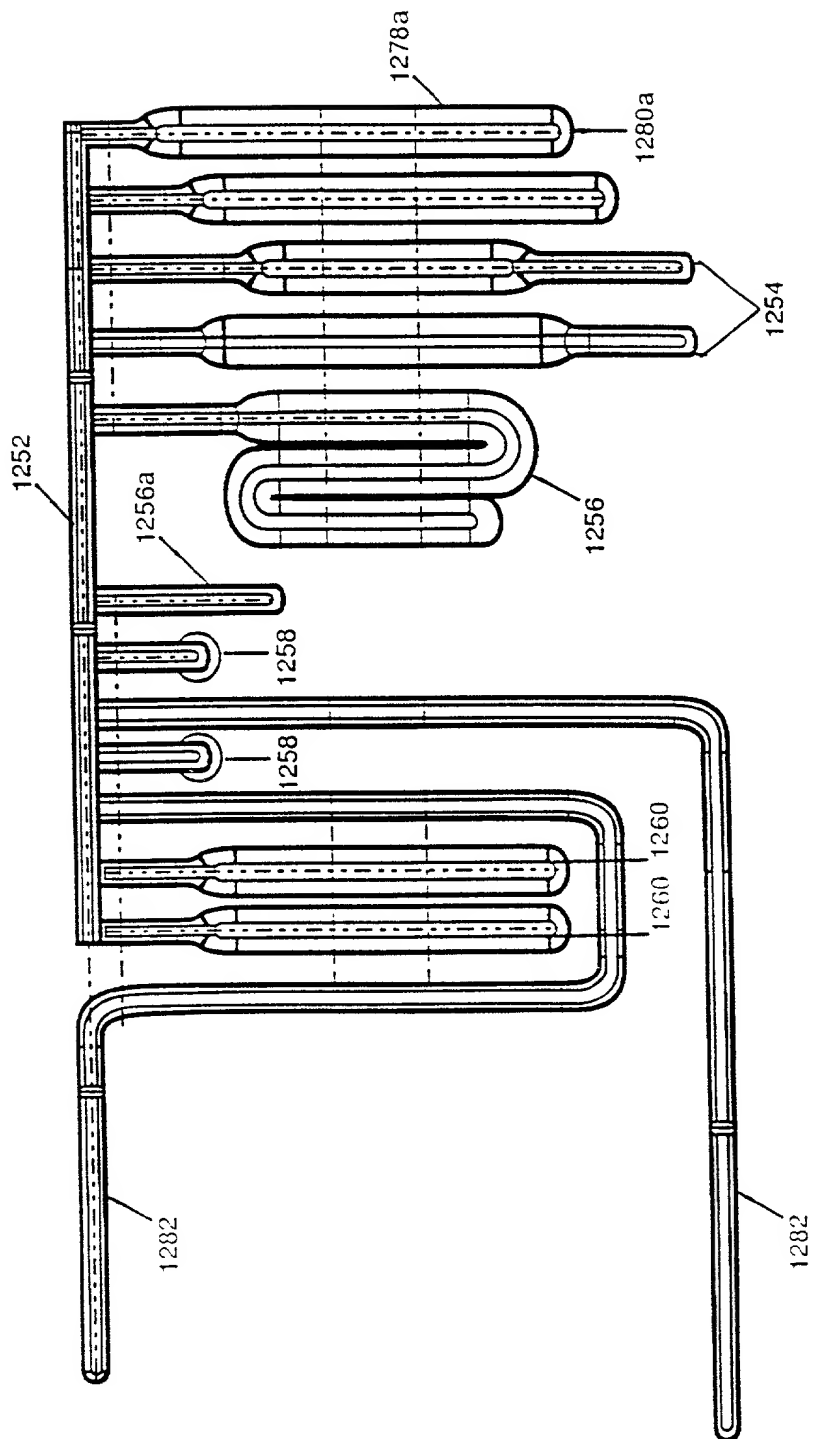


Figure 12d

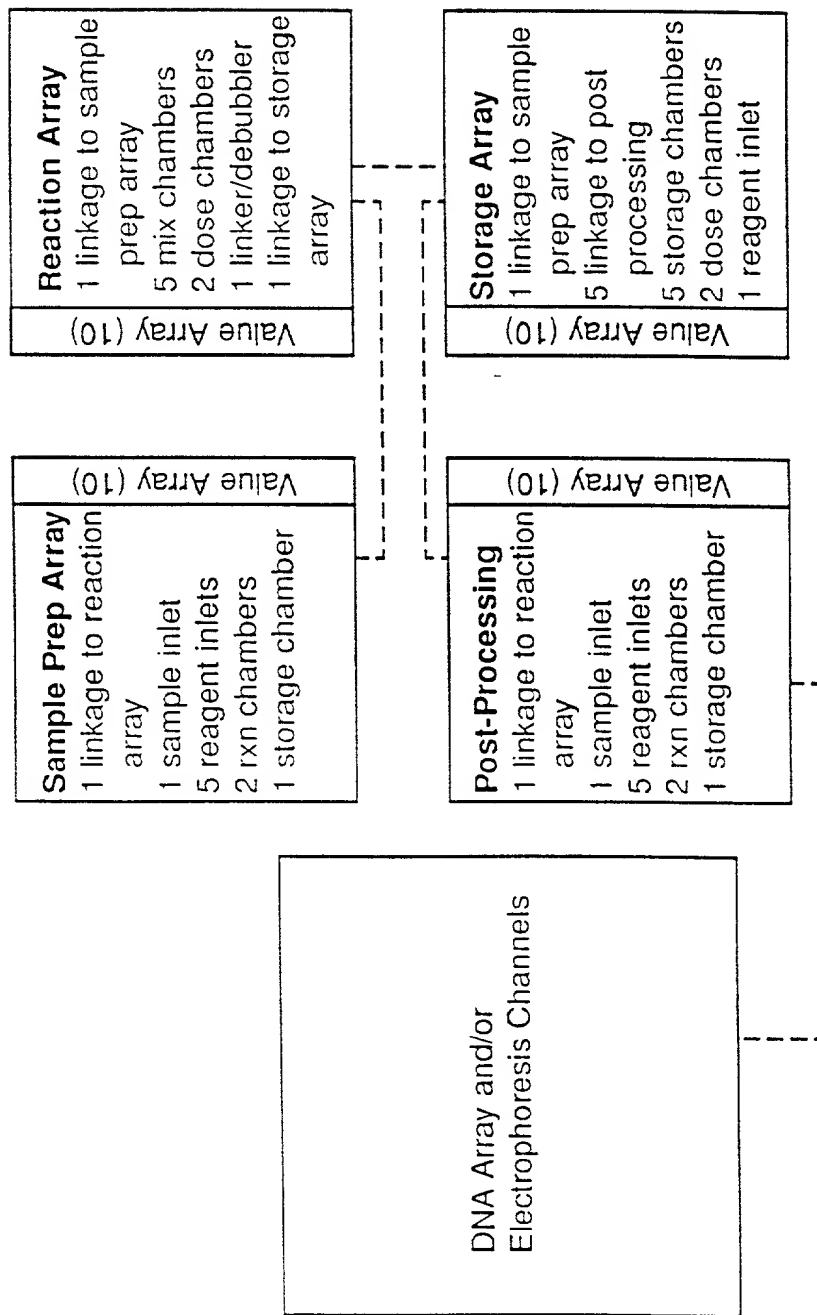


Figure 13

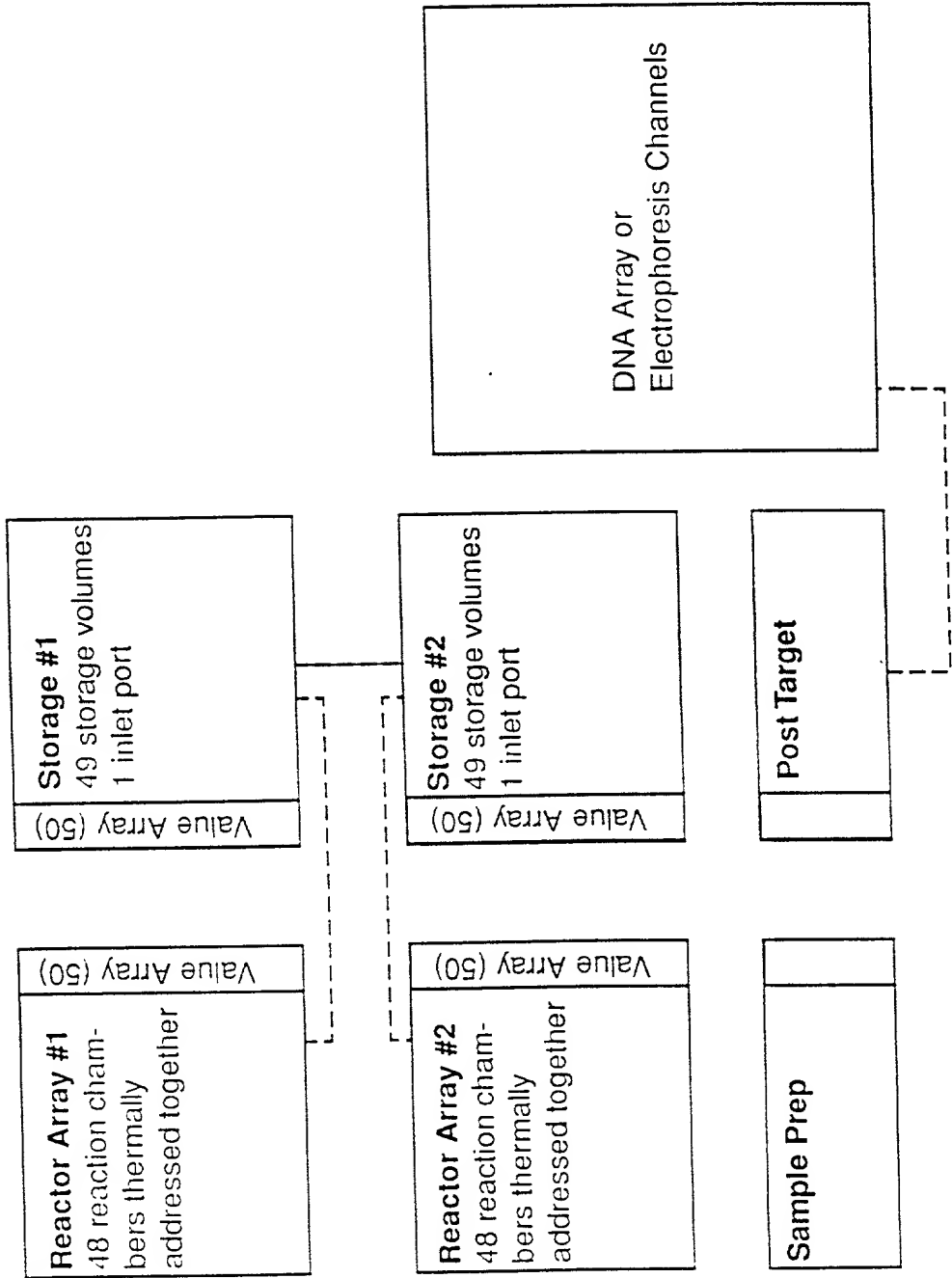


Figure 14



# Thermal Configuration

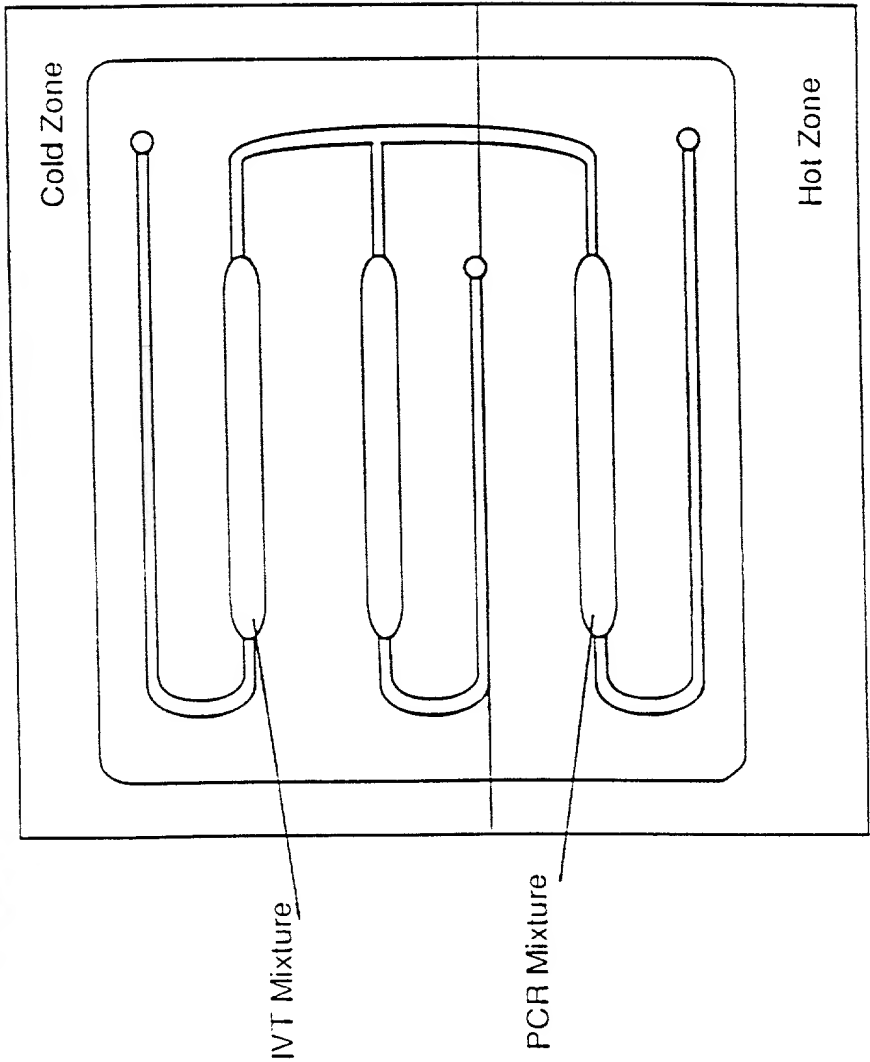


Figure 15a

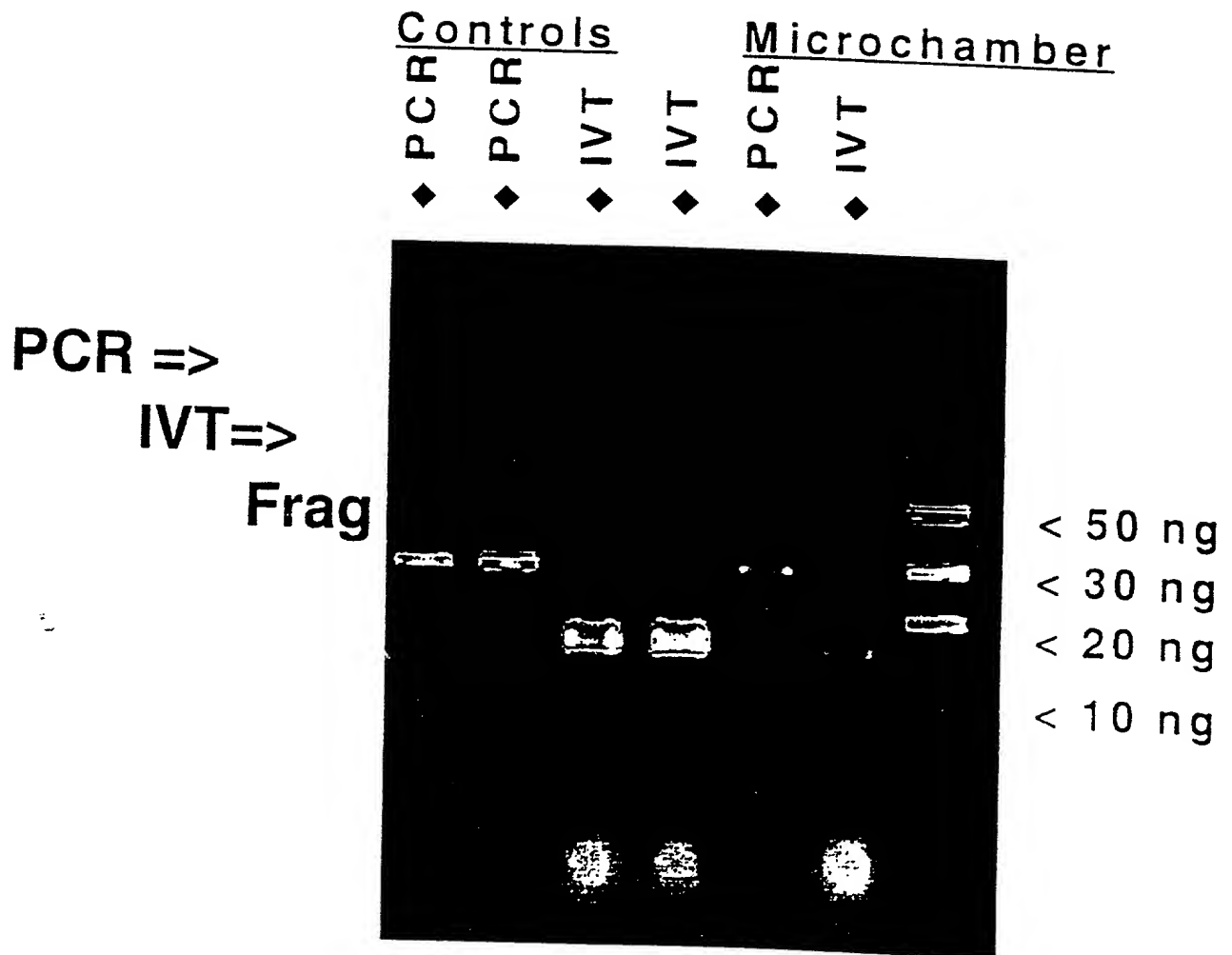


Fig. 15B